

Product datasheet for TG302929

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NODAL Human shRNA Plasmid Kit (Locus ID 4838)

Product data:

Product Type: shRNA Plasmids

Product Name: NODAL Human shRNA Plasmid Kit (Locus ID 4838)

Locus ID: 4838 HTX5 Synonyms:

Vector: pGFP-V-RS (TR30007)

E. coli Selection: Kanamycin Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: NODAL - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 4838).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.

NM 001329906, NM 018055, NM 018055.2, NM 018055.3, NM 018055.4, BC112025, RefSeq:

BC112025.1, BC033585, BC039861, BC104976

UniProt ID: O96S42

Summary: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta)

superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to

recruitment and activation of SMAD family transcription factors that regulate gene

expression. The encoded preproprotein is proteolytically processed to generate the mature

protein, which regulates early embryonic development. This protein is required for maintenance of human embryonic stem cell pluripotency and may play a role in human placental development. Mutations in this gene are associated with heterotaxy, a condition characterized by random orientation of visceral organs with respect to the left-right axis.

[provided by RefSeq, Aug 2016]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

> be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.





Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).